



UNIVERSITY OF EDUCATION, WINNEBA  
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING  
PROFESSIONAL DEVELOPMENT (ITECPD)



END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024

LEVEL: 200

COURSE CODE: JBI 242

COURSE TITLE: BIOLOGY AROUND US

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER.



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**GENERAL INSTRUCTIONS:**

- This paper is made up of ONE SECTION.
- The Section is made up of five essay type questions.
- Answer any **THREE** questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You will need manuscript sheets for this paper.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

**Instruction:** Answer any three (3) questions in the answer booklet provided.

1. a) Draw a chart you will use to teach Junior High School pupils how neurones work in the human body. **6 marks**  
b) Explain variations in human skin. **5 marks**  
c). Prepare a concept map of the human circulatory system with its functions. **9 marks**
2. A. Define the following concepts  
(i) genotype  
(ii) phenotype  
(iii) homozygote **6marks**

B). Describe the following deficiency diseases

- (i) Kwashiorkor
- (ii) Goitre

**4 marks**

C) State **five (5)** principles of farm animals production.

**10 marks**

3. a) i) How is sex determined in humans?

**5marks**

ii) What is albinism?

**4marks**

iii) Explain the occurrence of albinism in a family to Junior High School pupils.

**5mark**

b) Describe **three(3)** different management systems in keeping farm animals.

**6marks**

4. a) i) State misconceptions pupils have about sickle cell disease.

**2marks**

ii) How will you convince them that it is a natural occurrence?

**3marks**

iii) Outline the basic procedure for the production of biodiesel.

**10marks**

b). How will explain to basic seven learners that the developing foetus obtains food nutrients and dissolved oxygen from the mother.

**5marks**

5. a) i) How will you explain balanced diet and deficiency diseases to Basic 7 pupils?

**2marks**

ii) Copy and complete the table below.

**5marks**

<b>Food substance/nutrients</b>	<b>Deficiency disease (s)</b>
Carbohydrates	
Protein	
Vitamin C	
Vitamin D	
Iron	

b). What is the importance of biotechnology in food production?

**8marks**

c). What are the benefits of co-planning and co-teaching to the teacher?

**5marks**